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Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Complete if Known	
				Application Number	10/619,413
				Filing Date	July 16, 2003
				First Named Inventor	Handelman
				Group Art Unit	2874
				Examiner Name	Juliana Kang
Sheet	1	of	15	Attorney Docket Number	

U.S. PATENT DOCUMENTS						
Examiners Initials	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD- YYYY	Pages, columns, lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
Jh	AA	4,626,075		Chemla	12-02-1986	
Jh	AB	4,726,010		Ali et al	02-16-1988	
Jh	AC	5,170,273		Nishio	12-08-1992	
Jh	AD	5,191,457		Yamazaki	03-02-1993	
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OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS			
Examiner Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
Jh	AS	Mining the optical bandwidth for a terabit per second, Alan Eli Willner, IEEE Spectrum, April 1997, Pages 32-41	
Jh	AT	Record data-transmission rate reported at ECOC '96, Laser Focus World, November 1996, pages 40-42	

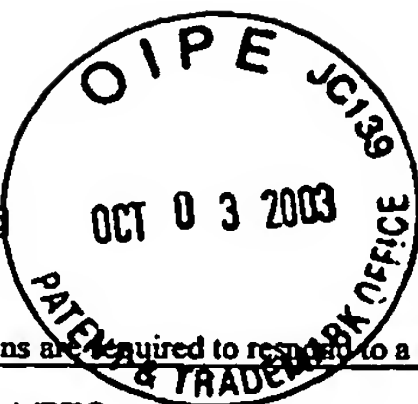
Examiner Signature	Juliana Kang	Date Considered	4/7/05
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		Number	Kind Code ² (if known)			
Jh	AU	6,023,360		Morioka et al	02-08-2000	
Jh	AV	6,108,112		Touma	8-22-2000	
Jh	AW	6,204,944		Uchiyama et al	03-20-2001	
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OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS			
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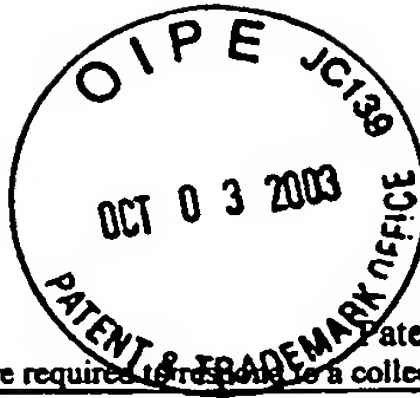
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Jh	BL	Speed Demons: Is 'Faster' Better and Cheaper? Stephanie A. Weiss, Photonics Spectra, February 1999, pages 96-102	
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Jh	BN	Optical switches pursue crossconnect markets, Hassaun Jones-Bey, Laser Focus World, May 1998, pages 153-162	
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Jh	BT	Terabit/second-transmission demonstrations make a splash at OFC '96, Laser Focus World, April 1996, page 13	
Jh	BU	Multigigabit Networks: The Challenge, Claude Rolland et al., IEEE LTS, May 1992, pages 16-26	

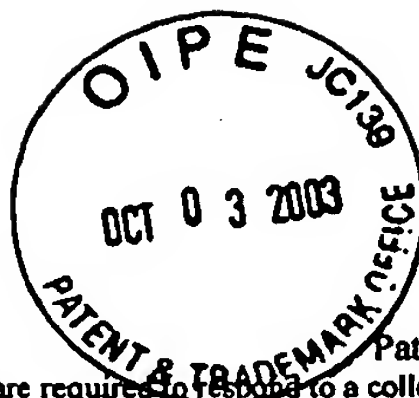
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Examiner Name	Juliana Kang					
Sheet	4	Of	15	Attorney Docket Number		

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS			
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Jh	BV	Direct Detection Lightwave Systems: Why Pay More? Paul Green et al., IEEE LCS, November 1990, pages 36-49	
Jh	BW	Photonics in Switching, Scott Hinton, IEEE LTS, August 1992, pages 26-35	
Jh	BX	Advanced Technology for Fiber Optic Subscriber Systems, Hiromu Toba et al., IEEE LTS, November 1992, pages 12-18	
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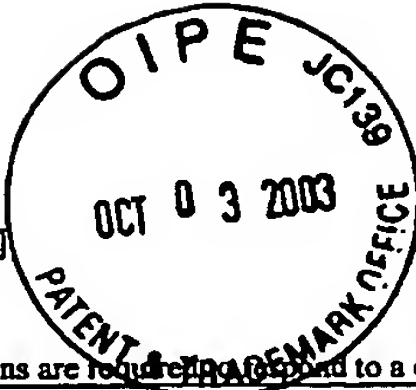
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			Examiner Name	Juliana Karg	
Sheet	5	Of	15	Attorney Docket Number	

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS			
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Jh	CF	Optical amplifiers revolutionize communications, Laser Focus World, September 1998, pages 28-32	
Jh	CG	Variable optical delay circuit using wavelength converters, T. Sakamoto et al, Electronics Letters, Vol. 37, No. 7, 29 March 2001, Pages 454-455	
Jh	CH	Design and Cost Performance of the Multistage WDM-PON Access Networks, Guido Maier et al., Journal of Lightwave Technology, Vol. 18, No. 2, February 2000, pages 125-143	
Jh	CI	Polarization Insensitive Widely Tunable All-Optical Clock Recovery Based on AM Mode-Locking of a Fiber Ring Laser, IEEE Photonics Technology Letters, Vol. 12, No. 2, February 2000, pages 211-213	
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Jh	CM	The Communications Handbook, Jerry D. Gibson, 1997, CRC Press, Inc., Chapter 46, pages 622-649	

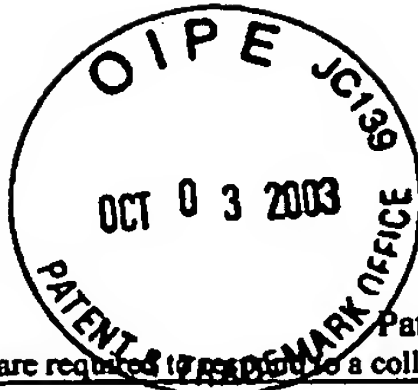
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OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS			
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Jh	CO	Picosecond-Accuracy All-Optical Bit Phase Sensing Using a Nonlinear Optical Loop Mirror, Hall et al., IEEE Photonics Technology Letters, Vol. 7, No. 8, August 1995, pages 935-937	
Jh	CP	An Ultrafast Variable Optical Delay Technique, Hall et al., IEEE Photonics Technology Letters, Vol. 12, No. 2, February 2000, pages 208-210	
Jh	CQ	Prescaled 6.3 GHz clock recovery from 50 Gbit/s TDM optical signal with 50 GHz PLL using four-wave mixing in a traveling-wave laser diode optical amplifier, Electronics Letters, 12 May 1994, Vol. 30, No. 10, pages 807-809	
Jh	CR	Variable optical delay line with diffraction-limited autoalignment, Klovekorn and Munch, Applied Optics, 1 April 1998, Vol. 37, No. 10, pages 1903-1904	
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Jh	CT	Lucent Upgrades WaveStar to 320-Channel, 800-Gb/s Transmission; Chalmers Develops 49-dB Optical Parametric Amplifier, Photonics Spectra, June 2000, page 46	
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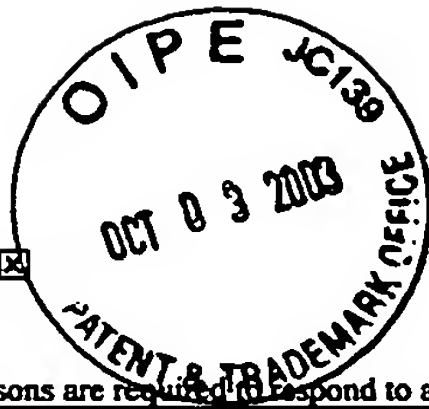
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Jh	CY	Analysis and Dimensioning of Switchless Networks for Single-Layer Optical Architecture, Binetti et al., Journal of Lightwave Technology, Vol. 18,. No. 2, February 2000, pages 144-153	
Jh	CZ	100-Gbit/s bitwise logic, Hall et al., Optics Letters, Vol. 23, No. 16, August 15, 1998, pages 1271-1273	
Jh	DA	An Optical Technique for Bit and Packet Synchronization, Blixt and Bowers, IEEE Photonics Technology Letters, Vol. 7, No. 1, January 1995, pages 123-125	
Jh	DB	Double-Spreading Modulation Scheme Picks Up Where CDMA and TDMA Leave Off, Electronic Design, July 10, 2000, pages 28-32	
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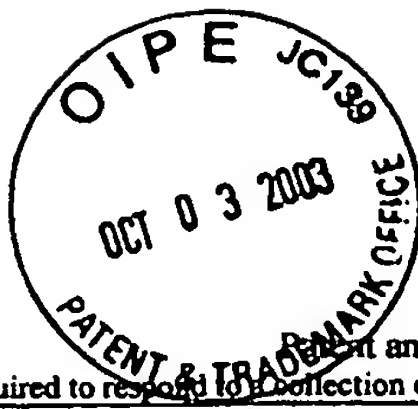
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Jh	DF	The Communications Handbook, Jerry D. Gibson, 1997, CRC Press, Inc., Chapter 37, pages 513-528	
Jh	DG	The Communications Handbook, Jerry D. Gibson, 1997, CRC Press, Inc., Chapter 39, pages 542-553	
Jh	DH	The Communications Handbook, Jerry D. Gibson, 1997, CRC Press, Inc., Chapter 40, pages 554-564	
Jh	DI	Architectural and Technological Issues for Future Optical Internet Networks, Listanti, et al., IEEE Communications Magazine, September 2000, pages 82-92	
Jh	DJ	IP over Optical Networks: Architectural Aspects, Rajagopalan, et al., IEEE Communications Magazine, September 2000, pages 94-102	
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Jh	DL	Approaches to Optical Internet Packet Switching, Hunter, et al., IEEE Communications Magazine, September 2000, pages 116-122	
Jh	DM	Photonic Switches: Fast, but Functional?, McCarthy, Photonics Spectra, March 2001, pages 140-150	
Jh	DN	WDM Local Area Networks, Kazovsky et al., IEEE LTS, May 1992, pages 8-15	
Jh	DO	Fiber-based components meet the needs of next-generation amplifiers, Bourgeois, WDM Solutions, March 2001, pages 67-74	
Jh	DP	Spectral equalization keeps optical signals in line, Ashmead, WDM Solutions, January 2001, pages 32-38	
Jh	DQ	Keep Your Photons in Line, Wesson et al., Photonics Spectra, September 1999, pages 102-108	

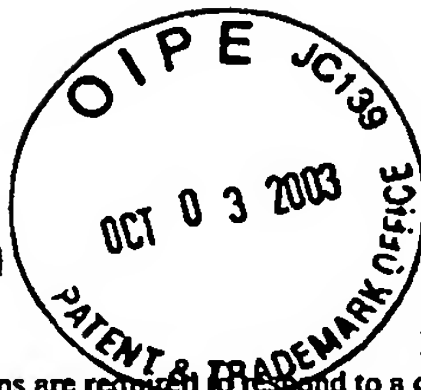
Examiner Signature	<i>Juliana Kang</i>	Date Considered	4/1/05
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>				Application Number	10/619,413
				Filing Date	July 16, 2003
				First Named Inventor	Handelman
				Group Art Unit	2814
				Examiner Name	Juliana Kang
Sheet	9	Of	15	Attorney Docket Number	

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS			
Examiner Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.	
Jh	DR	Router Promises Faster Switching, Robinson, Photonics Spectra, August 2001, page 24	
Jh	DS	On a dynamic wavelength assignment algorithm for wavelength routed all-optical networks, Andrei G. Stoica, et al., Optical Networks Magazine, January/February 2002, pages 68 – 80	
Jh	DT	XOR: A Logical Choice of All-Optical Networks, Perry J. Greenbaum, Photonics Spectra, November 2001, pages 30 - 31	
Jh	DU	On adaptive routing in wavelength-routed networks, Ching-Fang Hsu, et al., Optical Networks Magazine, January/February 2002, pages 15 – 24	
Jh	DV	A comparative study of distributed protocols for wavelength reservation in WDM optical networks, Debashis Saha, Optical Networks Magazine, January/February 2002, pages 45-52	
Jh	DW	A framework for unified traffic engineering in IP over WDM networks, Jinhan Song, et al., Optical Networks Magazine, November/December 2001, pages 28 – 33	
Jh	DX	Optimization of wavelength allocation in WDM optical buffers, Franco Callegati, et al., Optical Networks Magazine, November/December 2001, pages 66 – 72	
Jh	DY	A simple dynamic integrated provisioning/protection scheme in IP over WDM networks, Yinghua Ye, et al., IEEE Communications Magazine, November 2001, pages 174 – 182	
Jh	DZ	Photonic packet switching and optical label swapping, Daniel J. Blumenthal, Optical Networks Magazine, November/December 2001, pages 54 – 65	

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Jh	EA	Intelligent Optical Networking for Multilayer Survivability, Sophie de Maesschalck, et al., IEEE Communications Magazine, January 2002, pages 42 – 49	
Jh	EB	Crystal slows and stops light, John Wallace, Laser Focus World, February 2002, Vol. 38, No. 2, pages 36 – 37	
Jh	EC	Decision feedback loop compensates at 10 Gbit/s, Hassaun Jones-Bey, Laser Focus World, May 2000, pages 65 - 67	
Jh	ED	Alcatel Displays 1.6-Tb/s Transmission, Photonics Spectra, December 2001, page 18	
Jh	EE	The Communications Handbook, Jerry D. Gibson, 1997, CRC Press, Inc., Chapter 61, pages 832-847	
Jh	EF	The Communications Handbook, Jerry D. Gibson, 1997, CRC Press, Inc., Chapter 65, pages 883-890	
Jh	EG	Optical Signal Processing for Optical Packet Switching Networks, Blumenthal et al, IEEE Optical Communications, February 2003, pages S23 – S29	
Jh	EH	100-km Negative-Dispersion Fiber Carries 10 Gb/s, Gaughan, Photonics Spectra, November 2001, page 42	
Jh	EI	Managing Polarization Mode Dispersion, Chbat, Photonics Spectra, June 2000, pages 100 – 104	
Jh	EJ	Dynamic Dispersion Compensation: When and Where Will It Be Needed? Huff et al., Photonics Spectra, December 2001, pages 122 – 125	
Jh	EK	Dispersion management is vital for high-speed systems, Jeff Hecht, Laser Focus World, July 2001, pages 79 – 83	
Jh	EL	Tunable compensators master chromatic-dispersion impairments, Alan Willner, WDM Solutions, July 2001, pages 51 – 58	

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Jh	EM	Dispersion Compensation Gratings for the C-Band, Brennan, Photonics Spectra, June 2001, Pages 159 – 165	
Jh	EN	Hot rubidium slows light speed to 90 m/s, Kash, Laser Focus World, August 1999, page 11	
Jh	EO	Network demonstrates 1500-km unregenerated transmission at 40 Gbit/s, Hamre, Laser Focus World, July 2001, page 11	
Jh	EP	Electroholographic switches are fast and compact, Agranat, Laser Focus World, May 2001, pages 109 – 111	
Jh	EQ	Switch based on SOA achieves femtosecond switching, Nakamura, Laser Focus World, September 2001, page 9	
Jh	ER	Next-generation networks may benefit from SOAs, Young, Laser Focus World, September 2001, pages 73 – 79	
Jh	ES	All-optical converters promise improved networks, Jeff Hecht, Laser Focus World, April 2001, pages 159 – 164	
Jh	ET	Novel VOAs provide more speed and utility, Stephen Cohen, Laser Focus World, November 2000, pages 139 – 146	
Jh	EU	Array-based VOAs offer compact signal control, Nigel Cockroft, WDM Solutions, June 2001, pages 81 – 85	
Jh	EV	Semiconductor Optical Amplifier-Based All-Optical Gates for High-Speed Optical Processing, Kristian E. Stubkjaer, IEEE Journal on Selected Topics in Quantum Electronics, Vol. 6, No. 6, November/December 2000, pages 1428 – 1435	
Jh	EW	All-optical switching for high bandwidth optical networks, M. J. Potasek, Optical Networks Magazine, November/December 2002, pages 30 - 43	

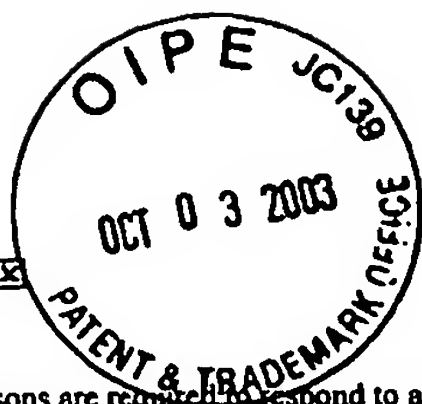
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			Examiner Name	Juliana Kang	
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Jh	EX	80Gbit/s all-optical regenerative wavelength conversion using semiconductor optical amplifier based interferometer, Kelly et al, Electronics Letters, Vol. 35, No. 17, 19 August 1999, pages 1477 – 1478	
Jh	EY	Demultiplexing of 168-Gb/s Data Pulses with a Hybrid-Integrated Symmetric Mach-Zehnder All-Optical Switch, Nakamura et al, IEEE Photonics Technology Letters, Vol. 12, No. 4, April 2000, pages 425 – 427	
Jh	EZ	All-Optical 2R Regeneration Based on Polarization Rotation in a Linear Optical Amplifier, Zhao et al, IEEE Photonics Technology Letters, Vol. 15, No. 2, February 2003, pages 305 – 307	
Jh	FA	All-Optical Data Format Conversion Between RZ and NRZ Based on a Mach-Zehnder Interferometric Wavelength Converter, Xu et al, IEEE Photonics Technology Letters, Vol. 15, No. 2, February 2003, pages 308 - 310	
Jh	FB	All-optical wavelength converter scheme for high speed RZ signal formats, Mikkelsen et al, Electronics Letters, Vol. 33, No. 25, 4 December 1997, pages 2137 – 2139	
Jh	FC	Penalty-Free Error-Free All-Optical Data Pulse Regeneration at 84 Gb/s by Using a Symmetric-Mach-Zehnder-Type Semiconductor Regenerator, Ueno et al, IEEE Photonics Technology Letters, Vol. 13, No. 5, May 2001, pages 469 – 471	
Jh	FD	40-Gb/s All-Optical Wavelength Conversion, Regeneration, and Demultiplexing in an SOA-Based All-Active Mach-Zehnder Interferometer, Wolfson et al, IEEE Photonics Technology Letters, Vol. 12, No. 3, March 2000, pages 332 - 334	

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			First Named Inventor	Handelman	
			Group Art Unit	2874	
			Examiner Name	Juliana Kang	
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Jh	FE	Compensation fibre chromatic dispersion by optical phase conjugation in a semiconductor laser amplifier, Tatham et al, Electronics Letters, Vol. 29, No. 21, 14 October 1993, pages 1851 – 1852	
Jh	FF	All-Optical 2R Regeneration of 40-Gb/s Signal Impaired by Intrachannel Four-Wave Mixing, Su et al, IEEE Photonics Technology Letters, Vol. 15, No. 2, February 2003, pages 350 – 352	
Jh	FG	1-Tb/s 16-b All-Optical Serial-to-Parallel Conversion Using a Surface-Reflection Optical Switch, Takahashi et al, IEEE Photonics Technology Letters, Vol. 15, No. 2, February 2003, pages 287 – 289	
Jh	FH	Wavelength Switching Components for Future Photonic Networks, White et al., IEEE Communications Magazine, September 2002, pages 74 – 81	
Jh	FI	Ultrafast (200-fs Switching, 1.5-Tb/s Demultiplexing) and High-Repetition (10GHz) Operations of a Polarization-Discriminating Symmetric Mach-Zehnder All-Optical Switch, Nakamura et al, in IEEE Photonics Technology Letters, Vol. 10, No. 11, November 1998, pages 1575 – 1577	
Jh	FJ	Ultrafast high-contrast all-optical switching using spin polarization in low-temperature-grown multiple quantum wells, Takahashi et al, Applied Physics Letters, Vol. 77, No. 19, 6 November 2000, pages 2958 – 2960	
Jh	FK	Compensation for channel dispersion by nonlinear optical phase conjugation, Yariv et al, Optics Letters, Vol. 4, No. 2, February 1979, pages 52 - 54	
Jh	FL	Architecture of Ultrafast Optical Packet Switching Ring Network, Takada et al, Journal of Lightwave Technology, Vol. 20, No. 12, December 2002, pages 2306 – 2315	

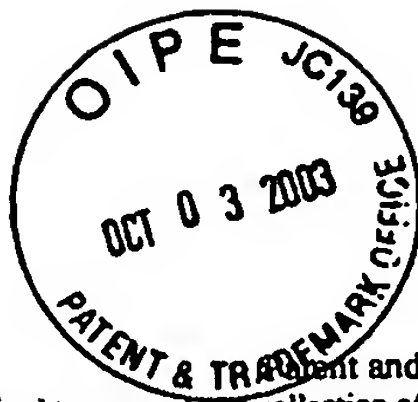
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			Filing Date	July 16, 2003	
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			Group Art Unit	2874	
			Examiner Name	Juliana Kang	
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OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS			
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Jh	FM	Monolithically Integrated 2 x 2 InGaAsP/InP Laser Amplifier Gate Switch Arrays, Janson et al, Electronics Letters, Vol. 28, No. 8, 9 April 1992, pages 776 – 778	
Jh	FN	Monolithically Integrated 4 x 4 InGaAsP/InP Laser Amplifier Gate Switch Arrays, Gustavsson et al, Electronics Letters, Vol. 28, No. 24, 19 November 1992, pages 2223 – 2225	
Jh	FO	All-Optical Triode Based on a Tandem Wavelength Converter Using Reflective Semiconductor Optical Amplifiers, Maeda et al, IEEE Photonics Technology Letters, Vol. 15, No. 2, February 2003, pages 257 – 259	
Jh	FP	160-Gb/s Optical-Time-Division Multiplexing With PPLN Hybrid Integrated Planar Lightwave Circuit, Ohara et al, IEEE Photonics Technology Letters, Vol. 15, No. 2, February 2003, pages 302 – 304	
Jh	FQ	Low-temperature-grown surface-reflection all-optical switch (LOTOS), Ryo Takahashi, Optical and Quantum Electronics, Vol. 33, 2001, pages 999 - 1017	
Jh	FR	Ultrafast 168 GHz 1.5 ps 1 fJ Symmetric-Mach-Zehnder-Type All-Optical Semiconductor Switch, Ueno et al, Japan Journal of Applied Physics, Vol. 39 (2000) pages L806 – L808, Part 2, No. 8A, 1 August 2000	
Jh	FS	Semiconductor Arrayed Waveguide Gratings for Photonic Integrated Devices, Yuzo Yoshikuni, IEEE Journal of Selected Topics in Quantum Electronics, Vol. 8, No. 6, November/December 2002, pages 1102 – 1114	
Jh	FT	N X N Arrayed Waveguide Gratings With Improved Frequency Accuracy, Bernasconi et al, IEEE Journal of Selected Topics in Quantum Electronics, Vol. 8, No. 6, November/December 2002, pages 1115 - 1121	

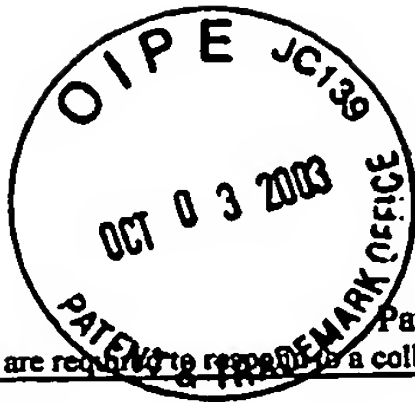
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Jh	FU	The New Indelible Memories, Linda Geppert, IEEE Spectrum, March 2003, pages 49 – 54	
Jh	FV	Integration of waveguide devices aims to reduce costs, Jeff Hecht, Laser Focus World, September 2002, pages 113 – 117	
Jh	FW	Band architecture improves performance, Marshall et al, Laser Focus World, September 2002, pages S7 – S10	
Jh	FX	Optical information processing awaits optoelectronic devices, Francis Yu, Laser Focus World, September 2002, pages 71 - 74	
Jh	FY	Monolithic Integration of a Semiconductor Optical Amplifier and a High Bandwidth p-i-n Photodiode Using Asymmetric Twin-Waveguide Technology, Xia et al, IEEE Photonics Technology Letters, Vol. 15, No. 3, March 2003, pages 452 - 454	
Jh	FZ	Optical crossconnect architectures for wavelength-routed WDM networks, Xiangdong Qin and Yuanyuan Yang, Optical Networks Magazine, July/August 2003, pages 50 – 63	

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